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IN PSPLY REFER TO

AGDA (M) (5 Feb 70) FOR OT UT 69.251

10 February 1970

SUBJECT: Operational Report - Lessons Learned, Headquarters, 45th Engineer

Group, Period Ending 31 October 1969

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2. Information contained in this report is provided to insure appropriate benefits in the future from lessons learned during current operations and may be adapted for use in developing training material.

BY ORDER OF THE SECRETARY OF THE ARMY:

inneth G. Skilkham

KENNETH G. WICKHAM Major General, USA The Adjutant General

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UNCLASSIFIED REPORT

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DEFARTMENT OF THE ARMY HEADQUARTERS 45TH ENGINEER GROUP (CONSTRUCTION) APO 96308

EGD_3 31 October 1969

SUBJECT: Operational Report of the 45th Engineer Group (Construction) for Period Ending 31 October 1969, RCS CSFOR_65 (RI)

THRU: Commanding General 18th Engineer Brigade ATTN: AVBC_CS AFO 96377

> Commanding General United States Army, Vietnam ATTN: AVHGC_DST APO 96375

Commander in Chief United States army, Pacific at 0 96558

TO: Assistant Chief of Staff for Force Development Department of the army (ACSFOR_DA) Washington, D. C. 20310

Section 1. Operations: Significant activities

- 1. The 45th Engineer Group (Construction) is located in the I Corps Tactical Zone, the Republic of Vietnam. During this reporting period the group headquarters remained at Phu Bai. The battalions and separate companies of the 45th Engineer Group (Construction) are located in the general vicinity of Luang Tri, Nuc. Phu Bai, and Chu Lai, RVN. Inclosure 1 is a schematic diagram depicting the organizational structure of the 45th Engineer Group (Construction) at the end of the reporting period. Inclosure 2 is a listing of units and commanders comprising the 45th Engineer Group (Construction).
- 2. The mission of the 45th Engineer Group (Construction) is to provide non-divisional engineer support throughout I Corps Tactical Zone in general support of III Marine Amphibious Force. Specific tasks undertaken in accomplishing the mission were minesweeps, combat engineer construction in support of tactical operations, LOC construction and cantonment construction for U.S. Forces in Northern I Corps.

FOR OT UT 694251 Inclosure

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- 3. The following is a list by unit of the significant accomplishments of the 45th Engineer Group for this reporting period:
 - a. 14th Engineer Battalion (Combat)
- (1) 5260 LF of revetments were erected in the Phu Bai area for protection of helicopters and billets.
- (2) 54,800 SF of M8#1 matting was emplaced for helipad/taxiway construction and erosion damage repair in Phu Bai.
- (3) Extensive combat support construction at Camp Carroll, FSB A-1, FSB A-2, FSB C-1, and FSB C-2 produced the construction of 49 living bunk kers, 5 fighting bunkers, 3 each propellant and powder bunkers, 2 FDC bunkers and 6 heavy gunpads.
- (4) 7 km of Rte 555A were upgraded by installing 300 LF of culvert, hauling 3500 CY of fill, constructing a 20 ft, single lane, class 50 bridge and graded and compacted readway.
- (5) 8 km of Rte 547A were upgraded. This was a joint US ARVN project and proved that the ARVN engineer elements are both qualified and capable.
- (6) A new 4 span, class 50 timber trestle bridge was constructed on Rte 550.
 - b. 27th Engineer Battalion (Combat)
- (1) Operation Horace Greeley terminated on 29 Sep. Significant accomplishments were:
 - (a) Road pioneered to FoB Rendezvous 72 km in length

(b) Construction of FSB Blaze.

- (c) Tank trail out to A Shau Valley. (d) Construction of FSB Rendezvous.
- (e) Produced 75,819 CYS of crushed rock.
- (f) Cut/fill 1,554,371 CYS.
- (2) On 19 October construction began on an 8 km road in the Phu Thu District Area. 35,120 Gubic meters of fill has been hauled and placed and 13,600 linear meters of roads graded and shaped. A land clearing project in conjunction with the construction has resulted in 1500 acrds being cleared.

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for Period Ending 31 October 1969, KCS CSFOR_65 (RI)

- c. 39th Engineer B ttalion (Combat)
- (1) All base-course work was completed on 41-1 from wang agai (85642745) to Due the (85806375).
- (2) The completed partions of WL-1 from ICT2/II CT2 Border to Due Fru (30 km) and from wang Ngai to Mo Duc (24 km) were turned over to the Ministry of Fublic works on 14 Oct and 25 Sep respectively.
 - (3) Construction of a 50 foot, class 60, timber pile bridge (35771461).
- (4) Construction of a 14,000 SY rotary wing parking agree at Puc Pho was completed on 19 September.
- 4. Major civic action rojects undertaken by units of the Group were:
- a. The construction of an irrigation canal system in the vicinity of LZ Goldia.
- b. The orphanage at sunng Mga1 (BS645728) started last quarter was completed.
- c. Construction has been taken over from ME 62 of a children's hespital in taking Tri consisting of 6 buildings (25,626 SF).
- 5. adVic engineer units worked with 45th G_{μ} units on the following projects:
 - 1. Upgrading of h1560.
 - b. Upgrading of HL 5474.
 - c. Construction of Camp Carrell
 - d. Construction of Dual Blade Bunkers at Ford and Cut.
 - e. Floneur road to Fob T-Bone.
 - f. Phu Thu Thuy No Road
- 6. Voluntary Informat Program (VIP) activities continued. The 39th ingineer dattalion (Conbat) was the forefunner in the program. A total of 5VN 95,300 was spent in return for 74 rounds of ammunition, 40mm and larger, 8 reckets, 74 greatest and other miscellar ous items.

SUBJECT: Operational Report of the 1,6th Engineer Group (Construction) for Period Ending 31 October 1969, RCS CSFOR_65 (RI)

7. Under the MEDCar Program 645 patients were treated.

8. We ther generally favored construction in the 45th Engr Gp area during August. Adverse conditions inhibited construction efforts during September and October.

TiBLE I: KAINFILL DATA (INCHES)

	Chu Lat	wong Tri	Phu Bai
Aug Total	0.05	0.71	0.11
24 hr high	0.01	0.18	0.05
Sep Total	21.60	24.40	24.20
24 hr high	2.90	7.17	6.32
Net Total	51.40	25.90	75:06*
4 hr high	8.00	10.23	21.65*

^{*} Record rainfall for Vietnam

9. Enemy activity in the I Corps Tactical Zone affecting units of the 45th Engineer Group (Construction) decreased in August, September and Ostober. Table II lists enemy initiated incidents.

TABLE 11: PARTY INITIATED LACIDIATS

	AUG	Sep	Oct
Mines/Booby Traps Found	27	11	17
Mines/Booby Traps Detonated	10	3	38
Mortar/Mcaket Attacks	9	10	11
Sniper Fire/Ambushes	14	17	3
Bridgus Damaged/Destroyed	3	O	0
Culverts D maged/Destroyed	5	0	1
Other	38	12	11
TUTAL	113	57	82

SUBJECT: Operational Report of the 45th Engineer Group (Construction) for Feriod Ending 31 October 1969, RCS CSFOR_65 (RI)

- 10. The following significant enemy initiated incidents occurred:
- a. B Company, 39th Engr Bn (C) on 12 August received 50-75 rounds of mortar, RFG and SAF, followed by a three prong ground attack by estimated company size enemy force. Results were 18 NVA/VC KIA, 2 captured AK-47's, 200-300 ChiCom grenades, 1 RFG launcher, 9 RFG rounds, and 10 bangalore torpedoes. Company B suffered 2 US WIA (M) (BS628854).
- b. C Company, 39th Engr Bn (C) on 12 August while on minesweep was ambushed from both sides of the road receiving heavy A/W and 8-10 rounds of RFG. One wounded VC was captured. One US was KIA (C/39), 10 US WIA (3M), 1 ea 5 ton and 1 ea 4 ton trucks destroyed. (BS758489)
- c. On 19 August the 73d Engineer Co (CS) paving team received 4.RFG and numerous M-79 rounds, and 800-1000 rounds of A/W fire. 1 US KIA and 1 US WIA. The paving machine was a total loss (BS889279).
- d. On 23 August 1st platoon, D Company, 19th EBC received heavy SAF from ambush. A reaction force comprised of C Company and 3 dusters while making to assist the platoon was ambushed also receiving 4-5 rounds of 60mm mertar, 200 rounds of SAF, and 20-25 rounds of RFG fire. Contact broke at 1630. The reaction force while returning to its base camp received 4 rounds of 60mm mortar. 15 NVA were KIA, 1 RFG launcher, 1 AK 47, 1 AK 50 and 1 M-16 captured. US casualties were 1 US KIA (hHC/19), 8 US HIA (2-HHC/45, 1-C/19, 5-D/19), 1-2½ ton (scils lab) truck dostroyed, and 2 (infantry) dusters destroyed (BS823340).
- c. On 22 October 1st platoon, C Company, 14th ESC while roturning from its work site was ambushed by an USEF with SAF and RFG. US cosualties were 2 US KIA (C/14) and 1 dczer destroyed (YD356355).
- 11. 45th engineer Group personnel casualties during the reporting period are summarized in Table III.

TABLE III: CASUALTY SUMMARY

	14th	27th	39th	ньС	59 <u>LC</u>
Кна	2 ·	0	1	0	4
Non-battle douths	1	1	2	0	0
WHA	8	1	25	2	3
Non-battle wounds	2	17	8	0	

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for Feriod ending 31 October 1969, NCS CSFOR_65 (RI)

12. The 45th ingineer Group (Construction) authorized personnel strength was recently cut by 294 spaces to 3056. Present strength is 97 percent of the readjusted strength. Shortages in specific areas continue to be critical within the following MS's listed below as of 1 Nov 69.

<u> 1000</u>	NOS Title	ath	Asg	2
05820	Madio Operator	 35	· 21	60
12840	Cbt wagr Squad Adr	226	152	70
51h50	Const Foremen.	ż	1	. 50
62D20	Asphalt topt Operator	12	7	58
62G3O	Yourry Man .	. 16	8	50
62G40	Superry Man Supervisor	. 8	Ž.	50
62N50	Const Mach Sulervisor	4	2	50
67N2F	Uh-1. Helo Mepairman	·i	0.	0
71720	Meint D. ta Specialist	- 19	9	47
76140	Supply Sgt	22	13	59
82A10	Rodmun & Tapeman	, 6	.2	33

TUBLE IV: AWARDS PRESENTED

	14.5.h	27th	39th	HHC
Silver Star	ò	0	3	. 0
Legion of Merit	1	0	. 0	. 0
Distinguished Flying - Cross	o .	. 0	. Q .	0 .
Soldierls Medai	o [.]	0	. 0 .	Ö .
Bronze Star (V-device)	1	. 2	11	0
Bronze Star	16	18	. 10	16
Mir redal (V-device)	Ò	O	, C	0
Air Medal	0	. 0	. 2	15
Army Commendation Medal (V-device)	0	2	13	0
Army Commendation Medal	30	35	53	23

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TABLE V: DISCIPLINARY ACTIONS

	1/th	2741	_39th	HHC
Special Court Martial	0	. 7	11	0
article 15	56	. 72	51	3 .

Section 2 - Leusons Learned: Commander's Observations, Evaluations, and Recommendations.

- 1. Personnel: None.
- 2. Operations: 1
 - a. Culvert Flacement by Aircraft (Kook)
- (1) Observation: In the construction of a preneur read, repid placing of culvert is us ential in maintaining construction progress. On many occasions culvert placement is required ahead of completed readway making transportation of materials difficult.
- (2) <u>Fvaluation:</u> Culvert materials may be pre-assembled and airlifted to the job site.
- (3) Recommendations: Large culverts (48", 66", and 72") may be preassembled and strutted at the rear work site and hooked to the work site by Ch47. Early morning scheduling of circust eliminated hover problems pilots experienced during the hatter portion of the day.
 - b. Protection of Bridge Abutments
 - (1) Observation: Bridge abutments washing out during heavy rains.
- (2) Evaluation: If a by-pass is constructed upstream from the bridge with insufficient culvert to allow passage of increased stream flow caused by heavy rains, the by-pass tends to act as a diversion wall and the stream flow is diverted to the lowest or weakest point in the by-pass. In one case the lowest point corresponded with one of the bridge abutments and the flow was diverted against the abutments.
- (3) <u>kenomendation</u>. Design by-pass structures to accommodate anticipated flood flows or insure that the elevation of the center of the by-pass is low enough so that increased flood flow will not be diverted against abutments.

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- c. Mino Probes:
- (1) Observation: Constant bending and stooping while probing leads to fatigue on long minesweeps.
- (2) <u>bypluation</u>: Mine probes should be made of a light, hard material such as fire hardened bamboo with sufficient length to eliminate the tiresome stooping and bending at each results. Probes of this type have been in use for a considerable amount of time with excellent results.
- (3) Recommendation: A lighter, stronger, and longer probe be made available for mine robe teams.
- 3. Training: None
- 4. Intolligence: None
- 5. Logistics:
- a. Observation: During the monsoon season rapid build-up of mud on the power train and chassis components has been as ociated with leaking oil and greese soals.
- b. Evaluation: The accumulation of mud on the under carriage clogs breather vents and forms an insulation shield around year cases. The sactions causes the looking of solls.
- c. Recommendation: Operators should pay special attention to washing and chipping away of mud from the under carriage to allow heat to dissipte from goar cases and insure of on breather vents.

Colonel, CE

Communding

6. Organization: None.

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AVBC-CG (31 October 1969) 1st Ind SUBJECT: Operational Report of the 45th Engineer Group (Construction) for the Feriod Ending 31 October 1969, RCS CSFOR-65 (R2)

DA, HEADQUARTERS, 18TH ENGINEER BRIGADE, APO 96377 1 5 DEC 1969

TO: Gommanding General, U.S. Army Vietnam, ATTN: AVHCC-DST, APO 96375

- 1. The Operational Report Lessons Learned for the 45th Engineer Group (Construction) has been reviewed by this Headquarters and is considered to be an excellent account of the Group's activities during the reporting period.
- 2. This Headquarters concurs with the observations and recommendations of the Group Commander.

J. W. MORRIS

Brigadier General, USA

Commanding

CF:

2 - AC of S for Force Development, DA

1 - CO, 45th Engr Gp

AVHGC-DST (31 Oct 69) 2d Ind SUBJECT: Operational Report of the 45th Engineer Group (Construction)

HEADQUARTERS, UNITED STATES ARMY, VIETNAM, APO SF 96375 31 DEC 1969

TO: Commander in Chief, United States Army, Pacific, ATTN: GPOP-DT, APO 96558

This headquarters has reviewed the Operational Report-Lessons Learned for the quarterly period ending 31 October 1969 from Headquarters, 45th Engineer Group (Construction) and concurs with the report as indorsed.

FOR THE COMMANDER:

JOHN A. O'BRIEN Colonal, AGC Adjutant General

Cy Furn: 45th Engr Gp 18th Engr Bde GPOP-DT (31 Oct 69) 3d Ind

SUBJECT: Operational Report of HQ, 45th Engineer Group (Construction) for Period Ending 31 October 1969, RCS CSFOR-65 (RI)

HQ, US Army, Pacific, APO San Francisco 96558 16 JAN 770

TO: Assistant Chief of Staff for Force Development, Department of the Army, Washington, D. C. 20310

This headquarters concurs in subject report as indorsed.

FOR THE COMMANDER IN CHIEF:

JOHN F. DUNN

Colonel, AGC

Deputy Adjutant General

SUBJECT: Operational report of the 45th Engineer Group (Construction) for Period Ending 31 October 1969, MCS CSFOR_65 (RI)

U. IT CURMINDERS

45th Engineer Group (Construction)
Commanding Officer - COL Carroll N. LoTellier 1 Aug to 31 Oct

14th Engineer B. tralion (Comb.:t)
Communding Officer - LTC Drake Wilson, 4 Aug to 31 Oct
LTC Ted E. Bishep, 1 Aug to 4 Aug

27th angineer B ttelion (Combat)
Commanding Officer - LTC Stuert Wood, Jr., 1 aug to 31 Oct

39th Engineer Buttalion (Combat)
Commanding Officer - LTC Thomas A. Ghormley, 1 Aug to 31 Oct

511th Engineer Company (Fract Bridge)
Commanding Officer - CFT Robert J. Reilly

591st Engineer Company (Light Equipment) Germanding Officer - Cri maximilian Took

630th Engineer Company (Light Equipment) Commanding Officer - Crf David R. Brown

59th Engineer Company (Land Clearing) Commanding Officer - CFT Lional Roach

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CO, 45th Engineer (Sup		
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